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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/699,812	11/03/2003	Eric Brent Szarmes	D9180-10	4448	
25397 75	590 11/28/2005		EXAMINER		
DUANE, MORRIS, LLP			RODRIGUEZ, ARMANDO		
3200 SOUTHWEST FREEWAY SUITE 3150			ART UNIT	PAPER NUMBER	
HOUSTON, TX 77027			2828		
			DATE MAILED: 11/28/200	DATE MAILED: 11/28/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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, I	Application No.	Applicant(s)	
· · · · · · · · · · · · · · · · · · ·	10/699,812	SZARMES, ERIC BRENT	
Office Action Summary	Examiner	Art Unit	
	ARMANDO RODRIGUEZ	2828	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with th	e correspondence address	
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATI 1.136(a). In no event, however, may a reply be red will apply and will expire SIX (6) MONTHS for the cause the application to become ABANDO	ON. The timely filed Tom the mailing date of this communication. TOM (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on	<u></u> .		
2a) This action is FINAL . 2b) ⊠ Th	nis action is non-final.	•	
3) Since this application is in condition for allow	rance except for formal matters,	prosecution as to the merits is	
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-12 is/are pending in the application	on.		
4a) Of the above claim(s) is/are withdr	awn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-12</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Examin	ner.		
10)☐ The drawing(s) filed on is/are: a)☐ ad	ccepted or b) objected to by the	e Examiner.	
Applicant may not request that any objection to the	e drawing(s) be held in abeyance.	See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the corre	= : :		
11) The oath or declaration is objected to by the I	Examiner. Note the attached Off	ce Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:	gn priority under 35 U.S.C. § 119	(a)-(d) or (f).	
 Certified copies of the priority docume 	nts have been received.		
2. Certified copies of the priority docume	nts have been received in Applic	ation No	
3. Copies of the certified copies of the pr	•	ived in this National Stage	
application from the International Bure	· · · · · · · · · · · · · · · · · · ·		
* See the attached detailed Office action for a list	st of the certified copies not rece	ived.	
Attachment(s)	а п	(DTO 440)	
1) X Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summ Paper No(s)/Mai		
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date		al Patent Application (PTO-152)	

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 11 and 12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 11,

The claim has been interpreted in light of the specification, however it is not within the claim language, what applicant has intended claim by the recited limitation of "coupling non-integral harmonic mode locking", thereby the claim is considered vague and indefinite, as such a proper search of the limitation has been conducted.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Szarmes (US 5,590,148).

Regarding claims 1, 4 and 11,

Column 9 lines 39-43, discloses harmonically locked and phase locked resonator [applicant's resonator]. Column 15 lines 11-20, discloses the use of an uncoated birefringent beamsplitter having a P-polarized surface [applicant's first surface] and an S-polarized reflection surface [applicant's second surface].

Regarding claims 2 and 6,

Column 9 line 25, discloses the beamsplitter in a Michelson resonator [applicant's interferometer].

Regarding claims 3 and 5,

Column 2 lines 26-31, discloses low losses and even zero losses at the P-polarization surface [applicant's low-loss].

Regarding claims 7-10,

Column 7 line 46 to column 8 line 50, discloses equations for obtaining tuning and selecting the hypermode with minimum losses. It is an inherent characteristic for the interferometer to have a free spectral range with any integral.

Regarding claim 12,

Column 15 discloses the uncoated birefringent beamsplitter used in interferometer with high power lasers, which among the high power lasers is the free electron laser (FEL), as disclosed in column 1 lines 42-45.

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to ARMANDO RODRIGUEZ whose telephone number is 571-272-1952. The examiner can normally be reached on 9:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MINSUN HARVEY can be reached on 571-272-1835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ARMANDO RODRIGUEZ

Examiner Art Unit 2828

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